

Math 30210 — Introduction to Operations Research

Quiz 2 – Wednesday September 12, 2007

NAME: _____

Instructions: This is a closed-book quiz. Please do not use any notes.

A linear programming problem is in *standard form* if all variables are constrained to be non-negative, and all constraints are equalities with constant, non-negative right-hand side.

Convert the following LP (the diet problem from last week) into an LP in standard form.

Minimize

$$3.8K + 6.2C$$

subject to $K, C \geq 0$ and

$$\begin{aligned} .1K + .25C &\geq 1 \\ K + .25C &\geq 5 \\ 900 &\leq 110K + 120C \leq 1500. \end{aligned}$$